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## Contents

### **1.1 Apache NiFi 1.3.0**

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### **1.2 apache spark 1.6.0**

1.2.1 Available under license

### **1.3 Apache sqoop sqoop-1.4.6+cdh5.9.0+77**

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### **1.4 Apache ZooKeeper 3.4.5 :2012-09-30**

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### **1.5 flume-ng 1.6.0**

1.5.1 Available under license

### **1.6 Hadoop (hdfs) 2.6.0**

1.6.1 Available under license

### **1.7 hadoop-common 2.6.0**

1.7.1 Available under license

### **1.8 Hive 1.1.0**

1.8.1 Available under license

### **1.9 Hue 3.9.0**

1.9.1 Available under license

### **1.10 kafka 1.0.1 :2**

1.10.1 Available under license

### **1.11 oozie 4.1.0**

1.11.1 Available under license

### **1.12 Python 2.6.6 :6**

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Jonathan Oliver, Chun Cheng and Yanggui Chen, TLSH - A Locality Sensitive Hash - 4th Cybercrime and Trustworthy Computing Workshop, Sydney, November 2013

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analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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### Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi). It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

- \* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
- \* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

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## # Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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#

acquire_rat_jar () {

    URL="http://repo1.maven.org/maven2/org/apache/rat/apache-rat/${RAT_VERSION}/apache-rat-
${RAT_VERSION}.jar"

    JAR="$rat_jar"

    # Download rat launch jar if it hasn't been downloaded yet
    if [ ! -f "$JAR" ]; then
        # Download
        printf "Attempting to fetch rat\n"
        JAR_DL="${JAR}.part"
        if [ $(command -v curl) ]; then
            curl -L --silent "${URL}" > "$JAR_DL" && mv "$JAR_DL" "$JAR"
        elif [ $(command -v wget) ]; then
            wget --quiet "${URL}" -O "$JAR_DL" && mv "$JAR_DL" "$JAR"
        else
            printf "You do not have curl or wget installed, please install rat manually.\n"
            exit -1
        fi
    fi

    unzip -tq "$JAR" &> /dev/null
    if [ $? -ne 0 ]; then
```

```

# We failed to download
rm "$JAR"
printf "Our attempt to download rat locally to ${JAR} failed. Please install rat manually.\n"
exit -1
fi
}

```

```

# Go to the Spark project root directory
FWDIR="$(cd "`dirname "$0"`/..; pwd)"
cd "$FWDIR"

```

```

if test -x "$JAVA_HOME/bin/java"; then
    declare java_cmd="$JAVA_HOME/bin/java"
else
    declare java_cmd=java
fi

```

```

export RAT_VERSION=0.10
export rat_jar="$FWDIR"/lib/apache-rat-${RAT_VERSION}.jar
mkdir -p "$FWDIR"/lib

```

```

[[ -f "$rat_jar" ]] || acquire_rat_jar || {
    echo "Download failed. Obtain the rat jar manually and place it at $rat_jar"
    exit 1
}

```

```

$java_cmd -jar "$rat_jar" -E "$FWDIR"/.rat-excludes -d "$FWDIR" > rat-results.txt

```

```

if [ $? -ne 0 ]; then
    echo "RAT exited abnormally"
    exit 1
fi

```

```

ERRORS="$(cat rat-results.txt | grep -e "?")"

```

```

if test ! -z "$ERRORS"; then
    echo "Could not find Apache license headers in the following files:"
    echo "$ERRORS"
    exit 1
else
    echo -e "RAT checks passed."
fi

```

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#### # A. HISTORY OF THE SOFTWARE

# =====

#

# Python was created in the early 1990s by Guido van Rossum at Stichting  
 # Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands  
 # as a successor of a language called ABC. Guido remains Python's  
 # principal author, although it includes many contributions from others.

#

# In 1995, Guido continued his work on Python at the Corporation for  
 # National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)  
 # in Reston, Virginia where he released several versions of the  
 # software.

#

# In May 2000, Guido and the Python core development team moved to  
 # BeOpen.com to form the BeOpen PythonLabs team. In October of the same

# year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

#

# All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

#

| # Release from | Derived | Year | Owner | GPL-compatible? (1) |
|----------------|---------|------|-------|---------------------|
|----------------|---------|------|-------|---------------------|

#

|                  |           |           |            |         |
|------------------|-----------|-----------|------------|---------|
| # 0.9.0 thru 1.2 |           | 1991-1995 | CWI        | yes     |
| # 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes     |
| # 1.6            | 1.5.2     | 2000      | CNRI       | no      |
| # 2.0            | 1.6       | 2000      | BeOpen.com | no      |
| # 1.6.1          | 1.6       | 2001      | CNRI       | yes (2) |
| # 2.1            | 2.0+1.6.1 | 2001      | PSF        | no      |
| # 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes     |
| # 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes     |
| # 2.2            | 2.1.1     | 2001      | PSF        | yes     |
| # 2.1.2          | 2.1.1     | 2002      | PSF        | yes     |
| # 2.1.3          | 2.1.2     | 2002      | PSF        | yes     |
| # 2.2.1          | 2.2       | 2002      | PSF        | yes     |
| # 2.2.2          | 2.2.1     | 2002      | PSF        | yes     |
| # 2.2.3          | 2.2.2     | 2003      | PSF        | yes     |
| # 2.3            | 2.2.2     | 2002-2003 | PSF        | yes     |
| # 2.3.1          | 2.3       | 2002-2003 | PSF        | yes     |
| # 2.3.2          | 2.3.1     | 2002-2003 | PSF        | yes     |
| # 2.3.3          | 2.3.2     | 2002-2003 | PSF        | yes     |
| # 2.3.4          | 2.3.3     | 2004      | PSF        | yes     |
| # 2.3.5          | 2.3.4     | 2005      | PSF        | yes     |
| # 2.4            | 2.3       | 2004      | PSF        | yes     |
| # 2.4.1          | 2.4       | 2005      | PSF        | yes     |
| # 2.4.2          | 2.4.1     | 2005      | PSF        | yes     |
| # 2.4.3          | 2.4.2     | 2006      | PSF        | yes     |
| # 2.4.4          | 2.4.3     | 2006      | PSF        | yes     |
| # 2.5            | 2.4       | 2006      | PSF        | yes     |
| # 2.5.1          | 2.5       | 2007      | PSF        | yes     |
| # 2.5.2          | 2.5.1     | 2008      | PSF        | yes     |
| # 2.5.3          | 2.5.2     | 2008      | PSF        | yes     |
| # 2.6            | 2.5       | 2008      | PSF        | yes     |
| # 2.6.1          | 2.6       | 2008      | PSF        | yes     |
| # 2.6.2          | 2.6.1     | 2009      | PSF        | yes     |
| # 2.6.3          | 2.6.2     | 2009      | PSF        | yes     |

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# 2.6.4      2.6.3    2009    PSF     yes
# 2.6.5      2.6.4    2010    PSF     yes
# 2.7        2.6      2010    PSF     yes
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# Footnotes:
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For portions of the native implementation of slicing-by-8 CRC calculation  
in src/main/native/src/org/apache/hadoop/util:

```
/**  
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 */
```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

```
/*  
 LZ4 - Fast LZ compression algorithm  
 Header File  
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```

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\*/

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
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| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
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| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4.1        | 2005      | PSF        | yes                 |

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Last updated: 2009-02-28

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## History

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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |



|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 2.7   | 2.6   | 2010 | PSF | yes |

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Python OpenID may be obtained from

<http://github.com/openid/python-openid>

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Advice for new contributors  
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New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

First steps

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Start with these easy tasks to discover Django's development process.

**\*\*Sign the Contributor License Agreement\*\***

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`. See the `Contributor License Agreement FAQ` for a more thorough explanation.

**\*\*Triage tickets\*\***

If an ``unreviewed ticket`_` reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at `:ref:`how-can-i-help-with-triaging``

**\*\*Look for tickets that are accepted and review patches to build familiarity with the codebase and the process\*\***

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. Run the tests and make sure they pass on your system. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

**\*\*Keep old patches up to date\*\***

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on `:doc:`writing-code/submitting-patches``.

**\*\*Write some documentation\*\***

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on `:doc:`writing-documentation``, in particular the tips for `:ref:`improving-the-documentation``.

.. note::

The ``reports page`_` contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. `_reports` page: <https://code.djangoproject.com/wiki/Reports>

.. `_CLA`: <https://www.djangoproject.com/foundation/cla/>

.. `_Contributor License Agreement FAQ`: <https://www.djangoproject.com/foundation/cla/faq/>

.. `_unreviewed ticket`: <https://code.djangoproject.com/query?status=!closed&stage=Unreviewed>

Guidelines

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As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

**\*\*Pick a subject area that you care about, that you are familiar with, or that you want to learn about\*\***

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

**\*\*Analyze tickets' context and history\*\***

Trac isn't an absolute; the context is just as important as the words.

When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if a core team member hasn't been recently involved in a discussion, then a ticket may not have the support required to get into trunk.

**\*\*Start small\*\***

It's easier to get feedback on a little issue than on a big one. See the ``easy pickings`_`.

**\*\*If you're going to engage in a big task, make sure that your idea has support first\*\***

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that the core team supports a proposed feature before you go implementing it.

**\*\*Be bold! Leave feedback!\*\***

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of the core developers. We can't do it without YOU!

**\*\*Err on the side of caution when marking things Ready For Check-in\*\***

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

**\*\*Wait for feedback, and respond to feedback that you receive\*\***

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

\* **Be rigorous** \*

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. `_easy pickings`: <https://code.djangoproject.com/query?status=!closed&easy=1>

.. `_new-contributors-faq`:

## FAQ

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1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?\***

First off, it's not personal. Django is entirely developed by volunteers (even the core developers), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the `|django-developers|` mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?\***

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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compiler/cpp/src/thrift/generate/t_erb_generator.cc
compiler/cpp/src/thrift/generate/t_hs_generator.cc
compiler/cpp/src/thrift/generate/t_java_generator.cc
compiler/cpp/src/thrift/generate/t_ocaml_generator.cc
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compiler/cpp/src/thrift/generate/t_rb_generator.cc
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lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
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lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
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/*
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd

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## 1.12 Python 2.6.6 :6

### 1.12.1 Available under license :

#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| Release | Derived | Year | Owner | GPL- |
|---------|---------|------|-------|------|
|---------|---------|------|-------|------|

|                | from      |           |            | compatible? (1) |
|----------------|-----------|-----------|------------|-----------------|
| 0.9.0 thru 1.2 |           | 1991-1995 | CWI        | yes             |
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes             |
| 1.6            | 1.5.2     | 2000      | CNRI       | no              |
| 2.0            | 1.6       | 2000      | BeOpen.com | no              |
| 1.6.1          | 1.6       | 2001      | CNRI       | yes (2)         |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no              |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes             |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes             |
| 2.2            | 2.1.1     | 2001      | PSF        | yes             |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes             |
| 2.1.3          | 2.1.2     | 2002      | PSF        | yes             |
| 2.2.1          | 2.2       | 2002      | PSF        | yes             |
| 2.2.2          | 2.2.1     | 2002      | PSF        | yes             |
| 2.2.3          | 2.2.2     | 2003      | PSF        | yes             |
| 2.3            | 2.2.2     | 2002-2003 | PSF        | yes             |
| 2.3.1          | 2.3       | 2002-2003 | PSF        | yes             |
| 2.3.2          | 2.3.1     | 2002-2003 | PSF        | yes             |
| 2.3.3          | 2.3.2     | 2002-2003 | PSF        | yes             |
| 2.3.4          | 2.3.3     | 2004      | PSF        | yes             |
| 2.3.5          | 2.3.4     | 2005      | PSF        | yes             |
| 2.4            | 2.3       | 2004      | PSF        | yes             |
| 2.4.1          | 2.4       | 2005      | PSF        | yes             |
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| 2.4.3          | 2.4.2     | 2006      | PSF        | yes             |
| 2.4.4          | 2.4.3     | 2006      | PSF        | yes             |
| 2.5            | 2.4       | 2006      | PSF        | yes             |
| 2.5.1          | 2.5       | 2007      | PSF        | yes             |
| 2.5.2          | 2.5.1     | 2008      | PSF        | yes             |
| 2.5.3          | 2.5.2     | 2008      | PSF        | yes             |
| 2.6            | 2.5       | 2008      | PSF        | yes             |
| 2.6.1          | 2.6       | 2008      | PSF        | yes             |
| 2.6.2          | 2.6.1     | 2009      | PSF        | yes             |
| 2.6.3          | 2.6.2     | 2009      | PSF        | yes             |
| 2.6.4          | 2.6.3     | 2009      | PSF        | yes             |
| 2.6.5          | 2.6.4     | 2010      | PSF        | yes             |

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.. \_history-and-license:

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### History and License

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#### History of the software

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl/>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <http://www.zope.com/>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| Release        | Derived from | Year      | Owner | GPL compatible? |
|----------------|--------------|-----------|-------|-----------------|
| 0.9.0 thru 1.2 | n/a          | 1991-1995 | CWI   | yes             |

|                      |                         |     |  |
|----------------------|-------------------------|-----|--|
| 1.3 thru 1.5.2   1.2 | 1995-1999   CNRI        | yes |  |
| 1.6                  | 1.5.2   2000   CNRI     | no  |  |
| 2.0                  | 1.6   2000   BeOpen.com | no  |  |
| 1.6.1                | 1.6   2001   CNRI       | no  |  |
| 2.1                  | 2.0+1.6.1   2001   PSF  | no  |  |
| 2.0.1                | 2.0+1.6.1   2001   PSF  | yes |  |
| 2.1.1                | 2.1+2.0.1   2001   PSF  | yes |  |
| 2.2                  | 2.1.1   2001   PSF      | yes |  |
| 2.1.2                | 2.1.1   2002   PSF      | yes |  |
| 2.1.3                | 2.1.2   2002   PSF      | yes |  |
| 2.2.1                | 2.2   2002   PSF        | yes |  |
| 2.2.2                | 2.2.1   2002   PSF      | yes |  |
| 2.2.3                | 2.2.2   2002-2003   PSF | yes |  |
| 2.3                  | 2.2.2   2002-2003   PSF | yes |  |
| 2.3.1                | 2.3   2002-2003   PSF   | yes |  |
| 2.3.2                | 2.3.1   2003   PSF      | yes |  |
| 2.3.3                | 2.3.2   2003   PSF      | yes |  |
| 2.3.4                | 2.3.3   2004   PSF      | yes |  |
| 2.3.5                | 2.3.4   2005   PSF      | yes |  |
| 2.4                  | 2.3   2004   PSF        | yes |  |
| 2.4.1                | 2.4   2005   PSF        | yes |  |
| 2.4.2                | 2.4.1   2005   PSF      | yes |  |
| 2.4.3                | 2.4.2   2006   PSF      | yes |  |
| 2.4.4                | 2.4.3   2006   PSF      | yes |  |

|                                 |       |      |     |     |  |
|---------------------------------|-------|------|-----|-----|--|
| 2.5                             | 2.4   | 2006 | PSF | yes |  |
| +-----+-----+-----+-----+-----+ |       |      |     |     |  |
| 2.5.1                           | 2.5   | 2007 | PSF | yes |  |
| +-----+-----+-----+-----+-----+ |       |      |     |     |  |
| 2.5.2                           | 2.5.1 | 2008 | PSF | yes |  |
| +-----+-----+-----+-----+-----+ |       |      |     |     |  |
| 2.5.3                           | 2.5.2 | 2008 | PSF | yes |  |
| +-----+-----+-----+-----+-----+ |       |      |     |     |  |
| 2.6                             | 2.5   | 2008 | PSF | yes |  |
| +-----+-----+-----+-----+-----+ |       |      |     |     |  |
| 2.6.1                           | 2.6   | 2008 | PSF | yes |  |
| +-----+-----+-----+-----+-----+ |       |      |     |     |  |
| 2.6.2                           | 2.6.1 | 2009 | PSF | yes |  |
| +-----+-----+-----+-----+-----+ |       |      |     |     |  |
| 2.6.3                           | 2.6.2 | 2009 | PSF | yes |  |
| +-----+-----+-----+-----+-----+ |       |      |     |     |  |
| 2.6.4                           | 2.6.3 | 2009 | PSF | yes |  |
| +-----+-----+-----+-----+-----+ |       |      |     |     |  |
| 2.6.5                           | 2.6.4 | 2010 | PSF | yes |  |
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A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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<http://www.math.keio.ac.jp/matumoto/emt.html>

email: [matumoto@math.keio.ac.jp](mailto:matumoto@math.keio.ac.jp)

Sockets

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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MD5 message digest algorithm

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.  
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.  
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.  
1999-05-03 lpd Original version.

Asynchronous socket services  
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Cookie management  
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## Profiling

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Execution tracing

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

#### XML Remote Procedure Calls

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test\_epoll

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Select kqueue

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